

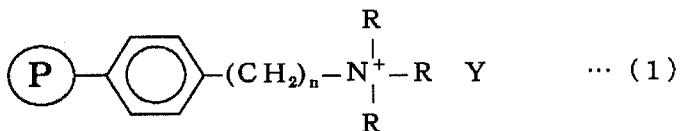
**AMENDMENT UNDER 37 C.F.R. § 1.114(c)**  
**U.S. Application No.: 10/573,039 (Q93989)**

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (Currently Amended) A method for producing a radioactive fluorine compound comprising the steps of: introducing [<sup>18</sup>F] fluoride ion-containing [<sup>18</sup>O] water into a column packed with an ion exchange resin to collect [<sup>18</sup>F] fluoride ions; and causing a substrate to react with the collected [<sup>18</sup>F] fluoride ions, characterized in that the ion exchange resin is represented by the following general formula (1):



wherein n represents an integer from 1 to 10; R represents a linear butyl group or branched monovalent hydrocarbon group having 1 to 8 carbon atoms; P represents a polystyrene-divinylbenzene styrene copolymer; and Y represents an anion is  $\text{CO}_3^{2-}$  or  $\text{HCO}_3^{3-}$ .

2. (Cancelled).
3. (Original) The method for producing a radioactive fluorine compound according to Claim 1, wherein the [<sup>18</sup>F] fluoride ion-containing [<sup>18</sup>O] water is introduced into the column in an amount of 1 g to 20 g.